

Dental Education System and researches related with COVID-19 in TMU

Hsin-Chung Cheng, DDS, MS, PhD

Dean and professor, College of Oral Medicine, Taipei Medical University Director, Orthodontic Department, Taipei Medical University Hospital, Taipei, Taiwan

Since the outbreak of COVID-19 at the end of 2019, it has changed the development of various industries around the world. Dental education and oral-related medical care have also been greatly affected by the COVID-19 pandemic. This report will introduce: 1. Implementation status of digital clinical education of College of Oral Medicine in Taipei Medical University (COM-TMU), 2. Changes in dental education under the COVID-19 pandemic, 3. Research on the impact of COVID-19 in dental education, 4. Research on the impact of COVID-19 toward dental infection control, and provide important reference for relevant institutions. COM-TMU has Digital Dental System, AR/VR classrooms, and performs various clinical OSCEs, including Group OSCE, Informatics OSCE, TRM (Team Resource Management), and AR/VR clinical simulation. However, it will be suspended during the pandemic, and all courses will be changed to online teaching. After the pandemic has extenuate, real operations will be carried out. We also perform the research of impact in these changes, publishing the paper "Dental education changed by COVID-19: Student's perceptions and attitudes" (Cheng et al. BMC Medical Education, 2011), finding that changing to online learning seems to be perceived as feasible by students. However, more discussion about changing dental professional courses with a laboratory format to online courses considering the attitudes from students is needed. Especially during the pandemic, we also implemented the impact of the pandemic on infection control measurements of dentists in Taiwan, published in "The impact of COVID-19 on knowledge, attitude, and infection control behaviors among dentists" (Cheng et al. BMC Oral Health, 2021), The significant impact of COVID- 19 on the knowledge, attitude, and infection control behaviors among dental care workers was observed in the current study. All of the above can give us important references.

Short CV

Hsin-Chung Cheng, D.D.S, MSD, Ph D.

**Dean and Professor, College of Oral Medicine;
Director, Department of Orthodontics, Taipei Medical
University Hospital, Taipei, Taiwan.**

Past President, Taiwan Association of Orthodontists (2017-18)

Past Chair, School of Dentistry, Taipei Medical University, Taipei, Taiwan. (2011-2017)



Professor Cheng is the current Dean of College of Medicine, Taipei Medical University. He has been the president of Taiwan Association of Orthodontists (TAO) (2017-2018) and the chairman and editor in chief of TAO Journal Committee (2013-2016). He graduated from school of dentistry, Taipei Medical University in 1983 and got Master and PhD degree from the same university in 1995 and 2008, respectively. He practiced in orthodontic department at his hospital and also engaged in teaching and research in his school of dentistry for near 30 years. His major researches were surface treatment of orthodontic TADs, esthetic smile in orthodontics, efficient orthodontic treatment of anterior cross-bite, evidence based in orthodontics..., etc. He is also committed to dental infection control research and teaching quality research, with outstanding results He has published over 400 different kinds of academic and clinical papers and been also invited to make lectures about his associated researches around the Asian countries and got an enthusiastic response.